

MATERIAL SAFETY DATA SHEET

SECTION 1 - MATERIAL IDENTIFICATION AND USE

MATERIAL

NAME - IDENTIFIER: STEEL FOUNDRY FILTER CORES

MANUFACTURER NAME:		SUPPLIER NAME:	SUPPLIER NAME:		
Apogee Ceramics Inc.		Apogee Ceramics Inc	Apogee Ceramics Inc.		
STREET ADDRESS:		STREET ADDRESS	STREET ADDRESS:		
71 Folsetter Dr.		71 Folsetter Dr.			
CITY:	COUNTRY:	CITY:	COUNTRY:		
Paris, Ontario	Canada	Paris, Ontario	Canada		
POSTAL CODE:	PHONE:	POSTAL CODE:	PHONE:		
N3L 0E2	519-442-3636	N3L 0E2	519-442-3636		

CHEMICAL NAME:	CHEMICAL FAMILY:		CHEMICAL FORMULA:
Aluminous Silicates	Cla	ıy	$3Al_2O_3 - 2SiO_2$
MOLECULAR WEIGHT:	MATERIAL	L USE:	
		MANUFACTUI	RING END USE
OXIDE CONTENT:	Al ₂ O ₃ :	59.38 %	
	SiO ₂ :	38.39 %	
	CaO:	0.18 %	
	MgO:	0.10 %	
	NaO ₂ :	0.15 %	
	Fe ₂ O ₃ :	0.67 %	
	TiO ₂ :	0.65 %	
	K ₂ O:	0.13 %	

SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	%	UN. NA OR CASE NUMBERS	LD/50 OF MATERIAL		
NONE ALL PRODUCTS ARE FIRED TO A MINIMUM OF 1250 °C AND ARE CONSIDERED TO BE CHEMICALLY INERT					

SECTION 3 - PHYSICAL DATA

PHYSICAL STATE:		ODOUR AND APPEARANCE:		ODOUR THRESHOLD
GAS() LIQUID() SOLID(X)		ODOUR/GREY		(PPM): N/A
VAPOUR	FREEZING	VAPOUR DENSITY	EVAPORATION	BOILING POINT (°C):
PRESSURE	POINT (°C):	(AIR-1): N/A	RATE: N/A	N/A
(mm Hg): N/A	N/A			
% VOLATILE	SOLUBILITY IN	BULK	SPECIFIC	COEFFICIENT WATER
(BY VOLUME):	WATER (20 °C):	DENSITY:	GRAVITY:	OIL DIST:
N/A	N/A	2.19 g/cc. TYPICAL	3.05	N/A



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SECTION 4 - FIRE AND EXPLOSIVE DATA

FLAMMABILITY					
YES () NO (X): IF YES, UNDER W	HICH CONDITIONS?				
MEANS OF EXTINCTION:					
SPECIAL PROCEDURE:					
FLASH POINT (°C) AND METHOD:	FLASH POINT (°C) AND METHOD: UPPER EXPLOSION LOWER EXPLOSION LIMIT				
N/A (% BY VOLUME): N/A (% BY VOLUME): N/A			(E): N/A		
AUTO IGNITION TEMPERATURE TDG FLAMMABILITY HAZARDOUS COMBUSTION					
(°C): N/A CLASSIFICATION: N/A PRODUCTS: N/A					
EXPLOSION DATA:	SENSITIVITY TO STATIC	EXPLOSIVE	RATE OF		
SENSITIVITY TO IMPACT: N/A	DISCHARGE:	POWER:	BURNING:		
N/A N/A N/A					

SECTION 5 - REACTIVITY DATA

CHEMICAL STABILITY	
YES (X), NO () IF NO UNDER WHICH CONDITIONS?	
COMPATIBILITY WITH OTHER SUBSTANCES	
YES (X), NO () IF NO, WHICH ONES?	
REACTIVITY UNDER WHICH CONDITIONS:	NON-REACTIVE
HAZARDOUS DECOMPOSITION PRODUCTS:	N/A

SECTION 6 - TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY:					
SKIN SKIN	EYE	INHALATION	INHALAT	TION	
CONTACT () ABSORPTION	() CONTACT()	ACUTE(X)	CHRONIC	(X)	
INGESTION ()					
EFFECTS OF ACUTE EXPOS	URE TO MATERIAL	. :			
NO EFFECT OTHER THAN A	S NUISANCE DUST	(WHEN MACHI	NING IS REQU	IRED.	
EFFECTS OF CHRONIC EXP	OSURE:				
LONG TERM EXPOSURE TO RESPIRABLE CRYSTALLINE SILICA CAN CAUSE SILICOSIS.					
LD/50 OF MATERIAL: LC/50 OF MATERIAL: EXPOSURE LIMIT OF IRRITANCY OF					
N/A N/A MATERIAL: MATERIAL		MATERIAL:			
5 mg/m N/A					
SENSITIZING CAPABILITY CARCINOGENICITY REPRODUCTIVE SYNERGIST		SYNERGISTIC			
OF MATERIAL: N/A	OF MATERIAL: N	/A EFFECTS	OF	MATERIALS:	
		MATERIA	AL: N/A	N/A	



MATERIAL SAFETY DATA SHEET SECTION 7 - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT: RESPIRATOR RECOMMENDED WHEN DUST IS						
CREATED						
DUE TO MACHINING OF FI	DUE TO MACHINING OF FIRED CERAMICS. PROTECTIVE EYE WEAR, GLOVES					
RECOMMENDED IN CASE O	OF BROKEN FRAGMENTS.					
GLOVES (SPECIFY):	RESPIRATORY (SPECIFY):	EYE (SPECIFY):				
SEE ABOVE	WHERE TLV IS EXCEEDED	SEE ABOVE				
FOOTWEAR (SPECIFY):	CLOTHING (SPECIFY):	OTHER (SPECIFY):				
N/A	N/A	N/A				
ENGINEERING CONTROLS (SPEC	CIFY E.G. VENTILATION ENCLOSE	D PROCESS):				
N/A						
LEAK AND SPILL PROCEDURE:						
N/A						
WASTE DISPOSAL:						
N/A						
HANDLING PROCEDURES AND EQUIPMENT:						
N/A						
STORAGE REQUIREMENTS:						
N/A						
SPECIAL SHIPPING INFORMATION:						
N/A						

SECTION 8 - FIRST AID MEASURES

IN CASE OF EYE INJURY, SEVERE CUTS FROM SHARP BROKEN CERAMIC FRAGMENTS, CONSULT PHYSICIAN IMMEDIATELY.

SOURCES USED: ADDITIONAL INFORMATION:

SECTION 9 - PREPARATION DATE OF THE MSDS

PREPARED BY	PHONE NUMBER:	DATE PREPARED:
(GROUP, DEPARTMENT, ETS)		
Operations Manager	519-442-3636	June 29, 2017
Apogee Ceramics Inc.		,